

19970909.ba v01_n661.bam.970909 v01_n662.bam.970909

>From ???@??? Tue Sep 09 23:43:06 1997
Message-Id: <199709090502.AAA15962@sco.theporch.com>
Date: Tue, 9 Sep 1997 00:02:26 CDT
Subject: BOATANCHORS digest 1661

BOATANCHORS Digest 1661

Topics covered in this issue include:

- 1) Gaithersburg Stuff
by Dan Martin <dmartin@visuallink.com>
- 2) DX-100 cabinet parts
by Sandra L Knepper <slkst29+@pitt.edu>
- 3) R.E. Oldest Parts
by "Allan Fritsche" <fritsche@classic.msn.com>
- 4) FS: Magazines - Reduced Price!
by "Walter Fairclough" <wfairclo@netcom.ca>
- 5) Re: Books and Equipment for sale
by Dick Dillman <ddillman@igc.apc.org>
- 6) WW2 German Tubes - Collectable?
by Bill Coleman N2BC <n2bc@ibm.net>
- 7) Re: Gaithersburg Stuff
by JD <k1zat@dsport.com>
- 8) AN/PRM-10 Grid Dip Meter
by Tom Kelly <tjkelly@apk.net>

Date: Mon, 08 Sep 1997 19:24:05 -0400
From: Dan Martin <dmartin@visuallink.com>
To: boatanchors@theporch.com
Subject: Gaithersburg Stuff
Message-ID: <34148915.51B6@visuallink.com>

Hi,all:

Heard second hand today that there were two "real nice" kilowatt Matchboxes at G'burg. Understand they were up in the tree area and almost side-by-side on one long table. Guy says they were in really fine shape appearance-wise, one particularly so. Anybody know who had them? Did they sell? (I was there most of Sunday and must've stumbled past them a hundred times. Never saw 'em) Nice 'fest, Gaithersburg - enough HP608F's to make an artificial reef! Tnx for any info on the Matchboxes.

73
Dan

WB4GRA
Winchester, VA

Date: Mon, 8 Sep 1997 20:00:01 -0400 (EDT)
From: Sandra L Knepper <slkst29+@pitt.edu>
To: boatanchors@theporch.com
Subject: DX-100 cabinet parts
Message-ID: <Pine.GS0.3.96L.970908195348.8785L-100000@unixs1.cis.pitt.edu>

The perforated metal sheet work from a DX-100 cabinet is a perfect match for the metal grill work of the older 312A-1 and 312A-2 Collins speakers.

I need the top of the a DX-100 cabinet to replace the grill in my 312A-1 speaker.

I will buy the entire cabinet if need be.

Also I will have a local supplier make the chrome metal hoods of these speakers if anyone wants one at a "reasonable" price. I also have a source for the Lumaline lamps.

Thank you.

Dave, W3BJZ
Publisher of the Collins Journal

Date: Tue, 9 Sep 97 00:17:08 UT
From: "Allan Fritsche" <fritsche@classic.msn.com>
To: boatanchors@theporch.com
Subject: R.E. Oldest Parts
Message-ID: <UPMAIL03.199709090025410025@classic.msn.com>

Well Gang, enjoyed this thread about oldest parts But, I didn't see anything about just plain old vanilla wire, whatever guage.. Insulated or not, that one has to beat them all.(Except maybe a Magnet...)

For my real personal view on this subject, the worlds oldest part is my own back after moving an HT-32, Valiant and an SX-101 from one bench to the next for BA surgery on the little R-390A.

Yes, do have a problem with the R-390A, Z-503 has a fractured coil slug. Just finished getting the old one out and attempting to repair the coil

Al
fritsche@msn.com

This is a multi-part message in MIME format.

\$1.00 per copy, \$12.00 for each full set. Will not break up complete years. All prices are in US dollars plus postage/shipping.

26UtAAAAACQQAAAAAAAAAAAAAAAAAAAAAgEAAMKFAADZFgAAAAAAAAAAAAAAAAAAAAAEKAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAWAAAKAAAWAAAKACQWAAAAACQWAAAAACQW
AAAAACQWAAAAACQWAAAOADIWAAAAAAAAAAAAADIWAAAAADIWAAAAADIWAAAAADIWAAAKADWAAAK
AAAAAAAAEYWAAAYAHKwAAAAAHKwAAAAAHKwAAAAAHKwAAAAAHKwAAAAAHKwAAAAAHKwAAAAAHKw
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ANKwAAAAANKwAAAAAAAAAAAAAAAAAAAAAAAwAEAEABwAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADQoNCgOHLsA3MyAtDQcN
BwOHDQcNBzE5NzINBONvbXBsZXRLDQcNBwOHMTk3MwOHQ29tcGxldGUNBwOHDQcxOTc3DQdNYXkN
BwOHDQcxOTc0DQdDb21wbGV0ZQOHDQcNBzE5NzUNBONvbXBsZXRLDQcNBwOHMTk3NgOHQ29tcGxldGUNBwOHDQcxOTc3DQdKdW5ldQcNBwOHMTk3NwOHT2N0b2JlcgOHDQcNBzE5NzcnB0RlY2VtYmV

[illegible]

[illegible]

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

-----=_NextPart_000_0000_01BCBC97.90C45200--

Date: Mon, 8 Sep 1997 18:04:40 -0700 (PDT)
From: Dick Dillman <ddillman@igc.apc.org>
To: dlr11@scasd.k12.pa.us, Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Books and Equipment for sale
Message-ID: <2.2.16.19970908180246.45678f8c@pop.igc.org>

At 11:36 AM 9/8/97 -0400, Doug Ripka wrote:

>I am in need of moving a bunch of books and some equipment out of my shop,
>so I can move
>around without causing an avalanche, or stubbing a toe. My list is too
>long to put on BA, if you
>want a copy, send me an e-mail address, and I will send this list to you.

Greetings, Doug. I'd appreciate a copy of that list.

Thanks,

Dick

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Date: Tue, 9 Sep 1997 01:32:32 -0700
From: Bill Coleman N2BC <n2bc@ibm.net>
To: boatanchors@theporch.com
Subject: WW2 German Tubes - Collectable?
Message-ID: <BMSMTP8737935486wf2awdc@pop3.ibm.net>

Have 3 tubes marked:

RL12P35

One is Telefunken, the other two are Valvo and these are marked: Wehrmacht Eigentum

Have 2 sockets for them, a 5 pin twist-lock arrangement.

Anybody need 'em for a restoration or a collection? Free for shipping from 13850.

Email to n2bc@ibm.net

Bill Coleman (N2BC)

Email: n2bc@ibm.net

Date: Mon, 8 Sep 1997 21:51:30 -0400 (EDT)
From: JD <k1zat@dsport.com>
To: Dan Martin <dmartin@visuallink.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Gaithersburg Stuff
Message-ID: <Pine.GS0.3.95.970908214751.2744A-100000@puff>

On Mon, 8 Sep 1997, Dan Martin wrote:

> two "real nice" kilowatt Matchboxes at G'burg. Understand they
> were up in the tree area and almost side-by-side on one long
> table.

Tis a fact, the ones I saw were right about the tree line
and the food stand.

> Guy says they were in really fine shape appearance-wise, one
> particularly so. Anybody know who had them? Did they sell? (I

They weren't pristine, but really good shape considering their
age. They were still on the table when I left about 1300.

> HP608F's to make an artificial reef! Tnx for any info on the Matchboxes.

Did you see the one pile of the 608f's at 20 bucks a piece.
Must have been a heck of a lot big/sale.

jd

Date: Mon, 08 Sep 1997 22:26:33 -0400
From: Tom Kelly <tjkelly@apk.net>
To: boatanchors@theporch.com
Subject: AN/PRM-10 Grid Dip Meter
Message-ID: <3414B3D9.65E7@apk.net>

Greetings,

I picked up a clean, five tube grid dip oscillator, known to the army as an AN/PRM-10 test oscillator (made by Stamford Electronics) at the Butler, PA hamfest. I have requested the TM from the local library, so I have that base covered. It's an impressive looking unit and I was wondering if anyone on the list has any experience with it and could comment on it.

Thanks,

Tom

--

Tom Kelly
Novelty, Ohio (east of Cleveland)

mailto:tjkelly@apk.net

End of BOATANCHORS Digest 1661

>From ???@??? Tue Sep 09 23:43:53 1997
Message-Id: <199709092231.RAA10608@sco.theporch.com>
Date: Tue, 9 Sep 1997 17:31:48 CDT
Subject: BOATANCHORS digest 1662

BOATANCHORS Digest 1662

Topics covered in this issue include:

- 1) Re: Re; workbench
by bdhall@ghg.net (Benjamin D. Hall)
- 2) Manuals FS
by jackiv@juno.com (John M Iverson)
- 3) What Batteries for Simpson Model 263 VOM?
by David Prince <davprin@gil.com.au>

- 4) HP manuals
by Franco Spinella <spinella@pisa.infn.it>
- 5) RME VHF-152A Front Panel Scan
by bdhall@ghg.net (Benjamin D. Hall)
- 6) NC-183D; xtal calib. and product detector wanted
by Mike Warren <m_warren@compuserve.com>
- 7) ** WTB: Drake R-4C NB & filters **
by eb5agv@ctv.es
- 8) Gonset GSB-100
by gcr2@po.CWRU.Edu (George C. Rybicki)
- 9) 32S-1 troubleshooting
by Ron Thomas <rthomas@gulf.net>
- 10) RE: HP manuals
by "L. Mark Pilant - MS:ZK03-4/Y02 DTN:381-1529" <pilant@seesaw.UNET.dec.com>
- 11) EICO 625 Tube Tester
by laffitte@prtc.net (laffitte)
- 12) Re: Gonset GSB-100
by Jim Lockwood <jmlckwd@mindspring.com>
- 13) Gaithersburg goodies
by "Lamb, Charles E MD (MIS, SalemVA)"
<lambmd-ce@salem.ge.com>
- 14) Re: Schematic Drawings
by "Roberta J. Barmore" <rbarmore@indy.net>
- 15) Re: Drake L4B Manual FS
by "ro" <otterstad@inet.uni-c.dk>
- 16) Speaker Mysteries
by Nick England <nick@cs.unc.edu>
- 17) Re: BOATANCHORS digest 1660
by Jderm740@aol.com
- 18) Re: Schematic Drawings, the right way.....
by tomrice@netcom.com (Tom R. Rice)
- 19) Butler...
by "Mike O'Brien" <mobrien@lib.drury.edu>
- 20) FS RCA Electron tube MicroMhoMeter
by jackiv@juno.com (John M Iverson)
- 21) HF-120/211-B/801s
by don merz <71333.144@compuserve.com>
- 22) re: CAD schematics
by Richard Loken <richardlo@devax.admin.athabascau.ca>
- 23) Re: Gonset GSB-100
by "P. J. Rovero" <provero@connix.com>
- 24) Stancor S-22 Mod Xfmr specs
by Bill Coleman N2BC <n2bc@ibm.net>
- 25) Need Manual & schematic
by "James C. Owen, III" <owen@piper.eeel.nist.gov>
- 26) CQ and Ham Radio Magazines for sale
by Steve Miller <smiller@motown.lmco.com>
- 27) REPOST: UTC S-22 Mod Xfmr specs

by Bill Coleman N2BC <n2bc@ibm.net>

Date: Mon, 08 Sep 1997 18:00:11 -0500
From: bdhall@ghg.net (Benjamin D. Hall)
To: rmccarty@deltanet.com, Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Re; workbench
Message-ID: <3.0.32.19970908175627.006de510@mailman.ghgcorp.com>

>A flip side regarding Carpet.

<very good pros for carpet snipped>

>I'd be interested to know why carpet is NOT advised.

My whole QTH is carpeted, including the shack. The minuses are:

hard to roll 400 lb racks around
hard to roll my indispensable "repair chair" (office task chair) around
anything I've spilled stays in it forever (paint, beer, etc)
it just cannot stand up to the wear like a good concrete or wood floor.

when I move out, this whole apartment will need recarpeting. Is it due to
BA activities? I don't know. Would I carpet my shack? I don't think so.
But a good, remnant rug (cost under \$20) would be nice!

later

ben

Benjamin D. Hall, KD5BYB (yes, the FCC finally issued my call!)
Engine and radio collector / operator extraordinaire.
Located in Houston, Texas, United States of America.
e-mail: BDHall@ghg.net web: <http://www.ghgcorp.com/bdhall>

Date: Tue, 9 Sep 1997 01:45:10 CDT
From: jackiv@juno.com (John M Iverson)
To: <boatanchors@sco.theporch.com>
Subject: Manuals FS
Message-ID: <19970909.020221.8894.0.jackiv@juno.com>

I have an assortment of NOS Hallicrafters manuals for sale. NOT
reproductions. they are in the general era of the HT-32. Too many items
to list, your wants direct to me. Jack Iverson jackiv@juno.com

Date: Tue, 09 Sep 1997 19:36:17 +1000
From: David Prince <davprin@gil.com.au>
To: Boatanchors <boatanchors@sco.theporch.com>,
Vintage Solid State <vss@mlist.access.digex.net>
Subject: What Batteries for Simpson Model 263 VOM?
Message-ID: <34151890.AD95CE84@gil.com.au>

G'day Gang,

Still trying to find out the answer to the above
subject. If you can help, please send a reply direct. Thanks.

--

Dave Prince VK4KDP
davprin@gil.com.au

Brisbane Military Radio Collection

Date: Tue, 09 Sep 1997 11:22:09 +0200
From: Franco Spinella <spinella@pisa.infn.it>
To: boatanchors@theporch.com
Subject: HP manuals
Message-ID: <34151541.347F@pisa.infn.it>

Hi friends,
I'm searching for a copy of the manual for an HP
8693B. This is a plug-in
for the old and glorious 8690B Microwave sweep generator.
Does someone has a list of the manual vendors on the net in the USA
or knows of someone who could have this manual ?

Thanks a lot

Franco IW5DUM

Email: spinella@pisa.infn.it

--

Dr. Franco Spinella
INFN, Italian Institute for Nuclear Physics
Work : Via vecchia livornese 1291

56010 S. Piero a Grado Pisa Italy
tel: 003950880203 fax: 003950880317
Home : Scali Olandesi 52
57125 Livorno Italy
tel 0039586884901
Email: spinella@pisa.infn.it

God is real unless declared integer

Date: Mon, 08 Sep 1997 20:33:50 -0500
From: bdhall@ghg.net (Benjamin D. Hall)
To: BoatAnchors@SCO.ThePorch.Com
Subject: RME VHF-152A Front Panel Scan
Message-ID: <3.0.32.19970908201243.006dee74@mailman.ghgcorp.com>

Greetings all...

I took the little black panel with the lettering off my RME VHF-152A last night to make a scan for Jose Gavila in Spain, as he has one missing a good bit of the lettering. While mine isn't perfect, and the scan isn't the greatest, it is better than nothing.

I'll e-mail a copy of the jpeg to anyone that needs one.

73 y'all,
Ben

Benjamin D. Hall, KD5BYB (yes, the FCC finally issued my call!)
Engine and radio collector / operator extraordinaire.
Located in Houston, Texas, United States of America.
e-mail: BDHall@ghg.net web: <http://www.ghgcorp.com/bdhall>

Date: Tue, 9 Sep 1997 06:43:03 -0400
From: Mike Warren <m_warren@compuserve.com>
To: ba-list <boatanchors@sco.theporch.com>
Subject: NC-183D; xtal calib. and product detector wanted
Message-ID: <199709090643_MC2-1FBA-B594@compuserve.com>

Hi Gang,

Just finished getting my National NC-183D working. I must say the audio sounds better and it tunes a lot easier than my Hallicrafters SX-100. But it lacks two important features -

a 100kc calibrator and a product detector.

Does anyone know if National made a XTAL calibrator for the NC-183D?

Or, does anyone have or recall articles for a home-brew version? It looks like the accessory socket would be a good spot for one. Maybe activate it with a push-pull switch on the back of one of the controls? =

And while I'm on the subject of the 183D, how 'bout any product detector articles? Or does anybody have experience with the unit made by Dovetron? =

(I think they advertise in ER).

Thanks for your help,

Mike - W5MAZ (in MN)

Date: Tue, 09 Sep 1997 12:45:07 +0200
From: eb5agv@ctv.es
To: DRAKE-L@fablotz.min.net
Cc: BAswaplist@foothill.net
Subject: ** WTB: Drake R-4C NB & filters **
Message-ID: <3.0.1.32.19970909124507.0071faf0@192.168.0.1>

Hi gang!

Well, title says almost all!. I'm looking for the NB-4 and some SSB/CW/AM filters for my recently acquired R-4C. I know it is not an easy task but...

Please, state price, model (for filters) and condition.

Thanks and best regards.

73 JOSE V. GAVILA (EB5AGV / EC5AAU)
Ausias March 46, 15
46910 Benetusser - VALENCIA
SPAIN

***** PLEASE, VISIT MY HOME PAGE! *****

<http://www.geocities.com/SiliconValley/6992/>
e-mail: eb5agv@ctv.es & eb5agv@amsat.org

Date: Tue, 9 Sep 1997 08:55:55 -0400 (EDT)
From: gcr2@po.CWRU.Edu (George C. Rybicki)
To: boatanchors@sco.theporch.com
Subject: Gonset GSB-100
Message-ID: <199709091255.IAA19258@piglet.INS.CWRU.Edu>

Hi fellow listmembers. Does anyone remember the Gonset GSB-100 SSB TX? I picked one up at Butler and I want to learn something about it, what vintage is it, how much power out and was it a good performer. I also need a manual or copy and would pay costs. 73 George KE8YX.

Date: Tue, 09 Sep 1997 08:25:59 -0700
From: Ron Thomas <rthomas@gulf.net>
To: boatanchors@theporch.com
Subject: 32S-1 troubleshooting
Message-ID: <34156A87.742C@gulf.net>

Hi gang,

I thought I would ask for some advice on troubleshooting a Collins 32S-1 transmitter I recently acquired.

Fist major symptom: When I turn the VOX gain control fully CCW to operate the switch that keys the PTT line, the relay closes as its supposed to but when I turn the control back CW out of the switch detent, the transmitter stays keyed!

I notice the same thing happens when I turn the mode switch to the LOCK KEY or CW position. Once the rig is keyed it stays keyed and the only way to unkey it is to turn it off and back on again.

Voltages from the power supply (516F-2) appear to be OK with the exception of the low B+ which reads 348 volts instead of 275! It does drop under key down conditions but is still in the neighborhood of 290 volts or so. Is this normal? I don't have a manual or schematic on the power supply.

I am trying to figure out how the VOX relay actuator works, so if anyone can shed some light on that circuit I would appreciate it. Taking

voltage and resistance measurements starting with V-1 revealed that the voltage at pin 3 of the 2nd audio amp (V-1B) is less than half of what it should be (~60v instead of 160v!). Not sure if this is related or not, but it seems to me that something tied to that voltage divider has significantly changed value which could be affecting the operation of the relay actuator circuit. The resistance at pin 3 of V-1B is 60.8K instead of 130K! I have checked the obvious resistors at pin 3 (R5, R6, R117) and a few capacitors (C4, C5, and C6A) and they all seem to be within reason (+/- 10%).

Haven't had time to read any more voltages or resistances yet, but wondered if anyone on the list might have run into this problem before and know where I should be looking. Also, what is a good source of .01 mfd 500V disc ceramic capacitors?

Thanks to anyone who can help!

73,

Ron Thomas N4RT

Date: Tue, 9 Sep 97 09:35:02 EDT
From: "L. Mark Pilant - MS:ZK03-4/Y02 DTN:381-1529" <pilant@seesaw.ENABLE.dec.com>
To: boatanchors@theporch.com
Cc: pilant@seesaw.ENABLE.dec.com
Subject: RE: HP manuals
Message-ID: <9709091335.AA02580@us2rmc.zko.dec.com>

Franco, I can recommend Linda Perkins, otherwise known as the Manual Merchant. You can reach her via e-mail as linda_p@ix.netcom.com (no web page yet, as far as I know).

Just don't take the last one...I just picked up an 8690B with the 8699B plugin. :-) :-) :-)

I don't have any financial connection, I just get a lot of manuals there.

BTW, two other places to look for manual copies are:

Tucker Electronics - <http://www.tucker.com/>
Fair Radio Sales - <http://alpha.wcoil.com/~fairradio/>

Tucker tends to be a little (to a lot, depending on what you are seeking) more expensive, but they will almost always be able to get you a copy of a manual. Fair Radio is probably the cheapest, but you usually only get "partial" copies of the manual. This usually includes the schematic and

operation/maintenance/calibration information, but sometimes lacks the parts list (with the part numbers).

73

- Mark N1VQW

Date: Tue, 09 Sep 1997 09:46:01 -0300
From: laffitte@prtc.net (laffitte)
To: boatanchors@theporch.com
Subject: EICO 625 Tube Tester
Message-ID: <34154509.5472@prtc.net>

Hello gang!

Well, my upper level circuits are failing me. The information I requested about the EICO tube tester was for the 625 which is the one I have not the 666?????. If any of you has a manual or update for this tester please let me know. I need the information.

I opened up the old Hickok 292x generator and at least everything seems to be there except the power transformer. Filament is 6V but plate is ????. Maybe it can be revived. At least the meter seems ok. We'll see.

TNX and 73s
Guido E. Santacana KP4FAR
BA collector in the tropics

Date: Tue, 09 Sep 1997 09:49:27 -0400
From: Jim Lockwood <jmlckwd@mindspring.com>
To: gcr2@po.CWRU.Edu, Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Gonset GSB-100
Message-ID: <3.0.32.19970909094842.0069b89c@pop.mindspring.com>

At 08:55 AM 9/9/97 -0400, George C. Rybicki wrote:

>Does anyone remember the Gonset GSB-100 SSB TX?

>what

>vintage is it, how much power out and was it a good performer.

I've had four of these things, some of which actually work. While that doesn't make me an expert by any stretch of the imagination, I've learned a bit about the rigs. Random observations:

GSB-100 overview:

Introduced in about 1958 and in production until maybe 1960 or 1961?????
100 W PEP from a single 6DQ5 sweep tube. USB, LSB, AM, CW, and PM
emission. Built in VOX with crude provisions for PTT. SSB generation
via the phasing method which yields excellent audio. Carrier suppression
is enhanced by the presence of a crystal filter.

Weakest link:

The power transformer!!!!!! If your GSB-100 has a blown transformer
(likely), it is possible to put it on life support by making an umbilical
cable that mates with a Heath HP-23 AC supply. If you do this, look for
an early HP-23 that has the 6V filament winding. Also, disconnect the
bias filter circuit inside the GSB-100; it loads the bias supply of the
HP-23 excessively.

Design variations:

Gonset seemed to have trouble finalizing the balanced modulator design as
well as other minor aspects of the overall product design.

The very earliest GSB-100s may have included 11M. No more than a dozen or
so would have been built like this.

Early GSB-100s had no cooling vents in the bottom of the cabinet and they
had "small" transformers in the balanced modulator.

Later GSB-100s had, in addition to cooling vents, "larger" transformers in
the balanced modulator. The first iteration of these "larger" transformers
mounted them flat on the chassis. There is mechanical interference between
the windings of one transformer and an adjacent tube. My guess is that
heat from the tube shortened the life of the transformer and led to the
next design iteration:

The latest GSB-100s I've seen mount one of the "larger" transformers on a
right angle bracket to get it away from the nearby tube.

I'm aware of two versions of the schematic. The later one has (as I
recall) "Rev B" or maybe "Rev 2" in the title block in the lower right
corner. The earlier one is blank in this area. Several component values
are different between the two. Which one do you need? It's hard to
say. Best bet is to get both and compare each to the transmitter you have.

Bringing one back to life:

Check all the carbon comp resistors (which is a good idea for any old BA

radio). I've found a dozen or more in a GSB-100 that have drifted up in value.

When doing the alignment, the manual calls for doing the RF alignment before neutralizing the PA. *My* recommendation is to neutralize the PA before attempting alignment on 15 or 10M. Failure to do this first can result in the sudden loss of a 6DQ5. Ask me how I know!

If the carrier level control is at all scratchy, replace it! Failure to replace a scratchy control here will result in some tremendous transients being sent thru the transmitter as it is rotated. Replacement note: This is a tough pot to find. It's a Type "J", 1K, pot with a 3/4" shaft. Type "J" isn't rare and neither is the 1K value, but the combination with a long shaft is a bit tough to locate.

If the transmitter seems to work but is dead on one or more bands, examine the pins of the crystals in the heterodyne oscillator. These crystals have adapters formed on to the pins so they fit an FT-243 format socket. The adapters come loose over time and make poor contact.

GSB-100 weirdness:

I'm aware of several GSB-100s that put out great power on 75 and 40, but only a handful of Watts on 20, 15, and 10. Two of mine do this and I have yet to figure out why.

One of my GSB-100s puts out substantially more power on one side band than on the other. I'm not sure this is a generic fault, but I thought I'd pass it along anyway.

On some models, on the underneath side of the chassis, there are a pair of resistors mounted between two terminal strips. Only one end of the resistors is connected to anything. ?????

Summary:

The GSB-100 really is a neat old transmitter that, once treated to some TLC, will be a useful addition to a BA shack. The VFO is reasonably stable after several 10s of minutes of warm up. Being a phasing rig, it will usually elicit favorable reports about its audio quality. It's got its quirks, but then all old tube type rigs do. That's just part of the charm of ownership.

73,

Jim - km6nk/4

Date: Tue, 9 Sep 1997 10:52:44 -0400
From: "Lamb, Charles E MD (MIS, SalemVA)"
<lambmd-ce@salem.ge.com>
To: "'BA Net'" <boatanchors@sco.theporch.com>
Subject: Gaithersburg goodies
Message-ID: <E101BA1F68DECF11A6DE0080D82075D17980E0@vasale01misge.salem.ge.com>

Hi folks,

It was nice meeting many of you. I am best remembered by the silver beard and hair -- present at the tender age of 40. I have several needs for information. A fellow engineering type bought a CEI 501 54-265 MHz receiver with the companion frequency extender type FE-25-1 (235-1000 MHz). For those uninitiated it has tiny pencil tubes and employs excellent construction with gold plated sockets and the like. The units were purchased for 15\$ each and work well, but Pete would love to find some spare meters or at least a schematic so that he can explore tapping off ahead of the IF for spectrum analysis. Can anyone help? Please reply to me, as he is not on Email yet. I purchased three other BAs -- two R391 receivers in very good shape for 20\$ each, a NIB TV-7D/U for 80\$ and two of those darn HP608Fs for parts (or whatever). The last purchase was down to 15\$ for two and they are full of milspec tubes (some of which are somewhat rare, such as the oscillator).

My second question for the collective knowledge of the net, is whether there was a separate R391 TM or simply an addendum to cover the autotune functions for the regular manual. I note that these were part of the FLR surveillance/monitoring system previously discussed on this forum. I would like to restore IF selectivity and so forth as the shafts were removed and a plate placed over the panel for this application. I believe the IF deck is complete otherwise, but haven't looked in detail at the units. It was worth the money just to get 4 meters, covers and a full complement of tubes (including 6082 electronic regulators).

All in all, it was an excellent BA fest. The only thing I regret is not picking up a 0-500V @150 ma (plate) and 0-150V @25 ma (Bias) PS for testing BA hulks with dead power supplies. Some guy had 3 of them but had sold them before I went around a second time. Please reply direct if you can help with either of the above issues.

Thanks!

Charles Lamb, WD4KZK
<lambmd-ce@salem.ge.com>

Date: Tue, 9 Sep 1997 10:03:10 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: BA <boatanchors@sco.ThePorch.com>
Subject: Re: Schematic Drawings
Message-ID: <Pine.SUN.3.96.970909091334.1111A-100000@indy3>

Hi!

Joe asked after a CAD program to redraw his schematics. Now CAD can be a very nice thing, and a great time-saver in some situations; if you use it and like it, that's FB with me.

But IMO, it's A) a bit of overkill for ham apps and B) no substitute for knowing how to lay out schematics properly in the first place.

All CAD will do inherently is standardize your symbols and draw nice straight lines; it won't make a hard-to-follow layout any better and since most versions in common use support **one** (1) line width, it can be more difficult to follow than a hand-drawn one. (Tiny dots at connections and the modern convention of not putting a "hump" where unconnected lines cross can be a **huge** CAD bugaboo--one fix is to **never** make connections in the form of "+" but I encounter this problem daily in manuals for pro gear!)

Horowitz and Hill's "The Art Of Electronics," an excellent general reference book, has a very good (and amusing) appendix on drawing schematics; I recommend it to **anyone** who has occasion to draw up anything more complex than one-tubers.

Generally, signal flow should be left-to-right, top-to-bottom; the main path should be very clear and roughly in a straight line. The trick of making up a huge "buss row" for supply rails (Collins' KWM-2 schematic comes to mind...) can be very confusing, and should be avoided. (An arrowhead labelled "+496.5" or whatever will do as well; if you wanna show the power distribution, make up another schematic just for that!) Functional blocks should be grouped, and labels above them ("1st IF" etc.) are very helpful.

In drawing by hand, gridded paper is best. "Engineering Form" can be found at most college bookstores and many office supply joints; it's grid paper (4 or 5 to the inch), and has the grid in dark in on the **back** of the page: you see it, but a photocopier will not! Next best is "non-photo blue" grid paper, the grid of which tends to drop out when copied. While I used to use 10-to-the-inch, 8-to is more generally useful; just about right for guiding coil & resistor symbols.

Drawing a little larger than usual and reducing when you copy will make the final result look better; all the little unevenness gets shrunk! (But

don't go too far--you, too, will be buying reading glasses at the drugstore by and by).

In the drawing itself, it is good to do it first in pencil (and faintly), then ink with two or more sizes of pens--a fine one for labels ("R2, 100K") and a heavier one for the schematic; some folks will use an even heavier one for the symbols and main paths, which looks nice but takes more time. Being a great fan of redundancy, I always use **both** the "hump-at-crossover" and "dot at connection" conventions, and avoid plus-shaped connections whenever possible (it doesn't take much to offset one or the other).

Some of the "alternate" symbols can save time and look better, especially if you're not artistic--the European convention of drawing resistors as hollow, skinny rectangles and transformer windings as dark rectangles each side of the conventional two or three lines for the core are good examples, very well-suited for grid-paper drawing. Subbing the designation for the decimal is another modern space-saver: "4.7uF" becomes "4u7" and it's easy to get used to. (But sheesh, I still draw a zigzag line for tube grids often as not, so don't look to me for "modern!")

Quite often, it is possible to draw up a pencil "chicken scratch" schematic, build and debug the device, making changes to the pencil drawing as you go, then ink it, haul it off to Ed's 24-Hr Hyper Copy, and have a good-looking end result with minimal effort--can't do it if you're homebrewing your own personal answer to the R-390 (unless you have some **big** paper and a drawing table ready to hand at the bench!), but in most cases it works well.

An awful lot of the CAD output I see in manuals* for the toys at work is second-rate at best: all the usual errors of layout and mismarking, plus unique CAD typos, like a multi-connection part offset from the connecting lines by a few spaces, parts designations far removed from the part, and too-faint single-weight lines. Me, I'll keep my pencil, fountain pen and set of felt-tips; it's not state of the art but at least I'm making my own mistakes! ;)

73,
--Bobbi

* Many of the **professional** manuals I see are, well... Awful. And there are plenty of hand-drawn members of that list (we do not mention the name "Nurad MC4"); the **only** tool that makes schematics clear and readable is the human mind, actually put in gear and with the motor running, no matter **how** one chooses to get the end result down on paper.

Some of the best examples of how to do it can be found in B. A. Ontiveros' drawings for "Radio," and in back issues of "Wireless World" through at least the mid 1980s. "RadComm" and the RSGB Radio Communications Handbooks are also good, and in recent years the ARRL HB

has been (mostly) getting the knack again.

Date: Tue, 9 Sep 1997 16:45:23 +0200
From: "ro" <otterstad@inet.uni-c.dk>
To: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: Drake L4B Manual FS
Message-ID: <199709091503.RAA24115@inet.uni-c.dk>

Ragnar Otterstad
email : otterstad@inet.uni-c.dk

I just found an unused L4B manual. Will air mail it to whoever wants it for 25 dollars.

73 Rag OZ8RO in Copenhagen

Date: Tue, 9 Sep 1997 11:57:54 -0400 (EDT)
From: Nick England <nick@cs.unc.edu>
To: boatanchors@theporch.com
Subject: Speaker Mysteries
Message-ID: <199709091557.LAA24939@altair.cs.unc.edu>

Thanks to replies from a number of boatanchorites, here is what I believe to be true about National NC-300 and 303 speakers. This info is probably correct since it is based on the what people actually have in their possession rather than a dim memory from an old Allied catalog.

NC-300 - National made two versions of the speaker and matching converter cabinet.

NC-300TS (early) speaker, smooth two-tone grey paint, no chrome strips, lightning bolt logo

NC-300CC (early) converter cabinet, matches above speaker cabinet

NC-300TS (late) speaker, wrinkly two-tone grey paint, no chrome strips, lightning bolt logo

NC-300CC (late) converter cabinet, matches above speaker cabinet

NC-303 - Only one version known with darker grey/black color on bottom
to match receiver

NC-303TS speaker, wrinkly two-tone grey/black paint,
chrome strips on side, logo in center

NC-303CC converter cabinet, matches above speaker cabinet
(seen in National ad, but I haven't come across anyone who
actually has one)

There is still considerable confusion regarding HRO-50, HRO-50T-1,
NC-173, NC-183, NC-183D, HRO-60 colors and speakers !!!!!

My current chart of receivers and matching speakers is at:
<http://www.cs.unc.edu/~nick/speakers.htm>

73 & Have Fun,
Nick England KD4CPL nick@cs.unc.edu Univ. Of North Carolina
<http://www.cs.unc.edu/~nick> Chapel Hill NC

Date: Tue, 9 Sep 1997 12:01:45 -0400 (EDT)
From: Jderm740@aol.com
To: boatanchors@theporch.com
Subject: Re: BOATANCHORS digest 1660
Message-ID: <970909120103_1750939006@emout09.mail.aol.com>

To Doug Ripka
I tried to contact you directly concerning your FS list but in the words of
that terrible torch song it came back "Return To Sender, Addressee Unknown"
Jack Jderm740@aol.com

Date: Tue, 9 Sep 1997 09:15:12 -0700 (PDT)
From: tomrice@netcom.com (Tom R. Rice)
To: boatanchors@sco.theporch.com (boatanchors list)
Subject: Re: Schematic Drawings, the right way.....
Message-ID: <199709091615.JAA17564@netcom16.netcom.com>

> From: "Roberta J. Barmore" <rbarmore@indy.net>

> straight lines; it won't make a hard-to-follow layout any better and since

<snip, snippity snip>

> through at least the mid 1980s. "RadComm" and the RSGB Radio
> Communications Handbooks are also good, and in recent years the ARRL HB
> has been (mostly) getting the knack again.

Right on, RJ! Besides, there's nothing more relaxing
after a hard day than exercising the discipline of
making a fine, detailed plan of your circuit.

I'll bet you've still got your LeRoy Lettering Set
(or that mini-version in the green box), the pile
of templates and the bottle of drawing ink. I sure do!

73 de WB6BYH (zig-zag grids every day!)

--

"Start off every day with a smile and get it over with." --W.C.Fields
Tom R. Rice
tomrice@netcom.com

Date: Tue, 9 Sep 1997 11:27:50 -0500 (CDT)
From: "Mike O'Brien" <mobrien@lib.drury.edu>
To: boatanchors@theporch.com
Subject: Butler...
Message-ID: <199709091627.LAA58324@lib.drury.edu>

George, KE8YX, recently wrote about a Gonset GSB 100: "I picked one
up at Butler..."

Now, I know he's referring to a recent hamfest (in Texas, if memory
serves).

But whenever I see a reference to a place called Butler in a
sentence about ham gear, I can't help but think of Butler, Missouri, for
many years the proud home of the original Henry Radio Co. store.

As a kid in the late '50s, my father made monthly business trips to
Kansas City. As often as possible, I stowed away as far as Butler, where he
would drop me off at the front door of Henry Radio. I'd spend the day in
their showroom, listening to receivers that otherwise were known to me only
in my dreams.

The staff was extremely tolerant of my presence. They seemed to know
I was buying from them all I could afford, and also seemed to understand my
dreams.

Too bad we can't "pick one up at Butler" yet today...

73, Mike, KOMYW

Date: Tue, 9 Sep 1997 11:35:17 CDT
From: jackiv@juno.com (John M Iverson)
To: <boatanchors@sco.theporch.com>
Subject: FS RCA Electron tube MicroMhoMeter
Message-ID: <19970909.113536.8806.0.jackiv@juno.com>

Help I need more space so I am going to sell the " Ultimate Tube Tester" This is a lab type instrument, not many out there. I will discuss price with serious buyers, and this thing is not cheap, It cost about 2 grand a few years ago, and is what the audio people like to match tubes with. The setup manual is a tube manual. wonderful to check all those thingies that are on the edge.
The RCA model no. WT-100A.
Jack Iverson jackiv@juno.com

Date: Tue, 9 Sep 1997 13:28:44 -0400
From: don merz <71333.144@compuserve.com>
To: boatanchors@theporch.com
Subject: HF-120/211-B/801s
Message-ID: <199709091330_MC2-1FC8-547D@compuserve.com>

I have 2 tubes that appear to be VT-4 substitutes. Both are Amperex. One is an HF-120 and the other is a 211-B. These both have brass bases and appear to be built to withstand WW3.

I am looking for 801s, 10Ys, 852s and such. If anyone want to do some swapping, please let me know.

Another note on 801s. I have 2 transmitters that use these and I need spares. If you run across any, please let me know. The audio crowd has driven the price of these through the roof. But the truth is that they could use the Svetlana 811-10 and get the same results. I prefer not to do that because I would have to do mods to my radios for the different filament voltages and the relocated grid connection. So if you plan on letting any 801's go please give some thought to keeping them in the radio community that needs exact replacements and nt just selling to the audio guys who have suitable current manufacture substitutes available. Thanks.

73, Don

Date: Tue, 09 Sep 1997 12:09:29 -0600 (MDT)
From: Richard Loken <richardlo@devax.admin.athabascau.ca>
To: boatanchors <boatanchors@sco.theporch.com>
Subject: re: CAD schematics
Message-ID:
<Pine.PMDF.3.95.970909115956.541124806A-100000@devax.admin.athabascau.ca>

I read Bobbi's comments about chintzy CAD drawings and agreed that she had a good point... And then I thought a little longer and remembered back to 1976 when I was in your biz.

At that time most broadcast gear came with typeset published manuals and drawing and then I noticed the boss started bringing in new stuff with manuals that looked like they had been typed up on a Model 19 and photocopies of drawings made with a kindergarten pencil on the back a used airsick bag.

One company came in to tell us about the new video production board that was being foisted on us, said I,

"are we getting usable docs or some scrawls made on the back of an envelope as is the current trend."

The company rep got real pissed and you betcha, we got a bunch of photocopies of illegible scrawls. Can't remember who they were anymore...

It ain't what you got, its how you use it. CAD or hand drawn, the quality of the drawings depends on the integrity of the guy doing the work.

Richard Loken VE6BSV, Systems Programmer - VMS : "...underneath those
Athabasca University : tuques we wear, our heads
Athabasca, Alberta Canada : are naked!"
** richardlo@admin.athabascau.ca ** : - Arthur Black

Date: Tue, 9 Sep 1997 14:32:50 -0400 (EDT)
From: "P. J. Rovero" <provero@connix.com>
To: "George C. Rybicki" <gcr2@po.CWRU.Edu>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Gonset GSB-100
Message-ID: <Pine.BSI.3.95.970909142729.12085A-100000@comet.connix.com>

Greetings from Hong Kong.....

The GSB-100 is a pretty nice radio, uses about half the

input power (100 watts) and therefore half the output power (50-60) watts that you'd expect. Uses sweep tube/tubes in final.

It never really transceived with anything. Think mine was paired with a drake 2-B. The only other thing I can recall of it (it was 27 years ago....) was that tuning up on 10 meters could be a challenge....

Take care,

P. J. "Josh" Rovero	email: provero@connix.com
Oceanographer	work: rovero@sonalysts.com
Meteorologist	radio: KK1D
Curmudgeon at Large	web: http://www.connix.com/~provero/

Date: Tue, 9 Sep 1997 19:32:58 -0700
From: Bill Coleman N2BC <n2bc@ibm.net>
To: boatanchors@theporch.com, homebrew@qth.net
Subject: Stancor S-22 Mod Xfmr specs
Message-ID: <BMSMTP8738586740wf2awdc@pop3.ibm.net>

Looking for the specs & pin connections for a Stancor S-22 modulation Transformer. Anybody??

Bill Coleman (N2BC)

Email: n2bc@ibm.net

Date: Tue, 9 Sep 1997 15:39:52 -0500 (EST)
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>
To: boatanchors@theporch.com
Subject: Need Manual & schematic
Message-ID: <56393.owen@piper.eeel.nist.gov>

for the Sprague Tele-Ohmike bridge model T0-4.

Thanks Jim K4CGY

Date: Tue, 9 Sep 1997 17:28:06 -0400

From: Steve Miller <smiller@motown.lmco.com>
To: boatanchors@theporch.com
Subject: CQ and Ham Radio Magazines for sale
Message-ID: <199709092128.RAA07451@raccoon.motown.lmco.com>

I have a large quantity of Ham Radio magazines for sale as well as CQ magazines.
There are 203 HR magazines over the complete run (some years complete) and 70 CQ mags.
The HRs are in very good to excellent condition with a couple of exceptions and the CQs are just average mostly.
I'd like to \$2 each for the small format HR and .50 each for the CQ's.
I'll take 1.50 for the large format HR's. Please respond to BGmill@aol.com for more details.
Thanks
Steve Kd2Ed

Date: Tue, 9 Sep 1997 22:31:11 -0700
From: Bill Coleman N2BC <n2bc@ibm.net>
To: boatanchors@theporch.com, homebrew@qth.net
Subject: REPOST: UTC S-22 Mod Xfmr specs
Message-ID: <BMSMTP8738691830wf2awdc@pop3.ibm.net>

I oops'd the first time... The modulation transformer is a UTC S-22 (original post said Stancor).

Need the specs & pin connections. I have some clues as it's currently wired up to a pair of 811s, but I'm getting some funny looking resistance readings.... I suspect it's tapped for multiple load impedances but the windings don't seem to be very balanced.

Anywho... anybody have the info handy??

THX for reading my bits! 73, Bill

Bill Coleman (N2BC)

Email: n2bc@ibm.net

End of BOATANCHORS Digest 1662
